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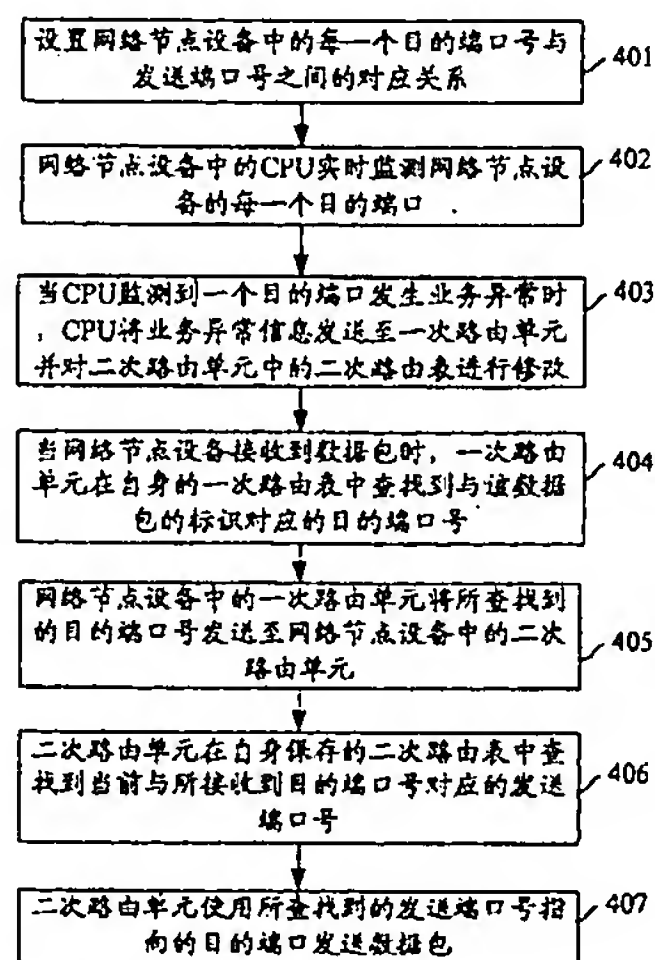
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(54) Title: A ROUTE SWITCHING METHOD AND A NETWORK NODE DEVICE

(54) 发明名称: 一种路由切换方法及一种网络节点设备



401 SET THE CORRESPONDENCE BETWEEN EACH DESTINATION PORT NUMBER AND THE TRANSMISSION PORT NUMBER IN THE NETWORK NODE DEVICE  
402 THE CPU IN THE NETWORK NODE DEVICE MONITORS EACH DESTINATION PORT OF THE NETWORK NODE DEVICE IN REAL TIME  
403 WHEN CPU MONITORS THAT ONE DESTINATION PORT HAS ABNORMAL SERVICE, CPU TRANSMITS THE SERVICE ABNORMAL INFORMATION TO THE FIRST ROUTE UNIT AND MODIFIES THE SECOND ROUTE LIST IN THE SECOND ROUTE UNIT  
404 WHEN THE NETWORK NODE DEVICE RECEIVES THE PACKET, THE FIRST ROUTE UNIT FINDS THE DESTINATION PORT NUMBER IN ITS FIRST ROUTE LIST CORRESPONDING TO THE IDENTIFICATION OF THE PACKET  
405 THE FIRST ROUTE UNIT IN THE NETWORK NODE DEVICE TRANSMITS THE DESTINATION PORT NUMBER FOUND TO THE SECOND ROUTE UNIT IN THE NETWORK NODE DEVICE  
406 THE SECOND ROUTE UNIT FINDS THE TRANSMISSION PORT NUMBER CORRESPONDING TO THE CURRENTLY RECEIVED DESTINATION PORT NUMBER IN THE SECOND ROUTE LIST SAVED ON ITSELF  
407 THE SECOND ROUTE UNIT TRANSMITS THE PACKET USING THE DESTINATION PORT WHICH THE TRANSMISSION PORT NUMBER POINTS TO

(57) Abstract: A route switching method and a network node device. The method is: set the correspondence between each destination port number and the transmission port number, in which the value of each transmission port number is the number itself of the corresponding destination port; when any one of the destination port has abnormal service, the network node device modifies the value of the transmission port number corresponding to the port which has abnormal service into the port number of the backup port corresponding to the port which has abnormal service and saves it; after receiving the packet, the network node device transmits the packet according to the current saved correspondence. The network node device includes the central processing unit, the first route unit and the second route unit. The present invention reduces the time required to modify the route data, causing the network node device to perform the route switching quickly and causing the user service to be resumed rapidly.

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WO 2006/074596 A1



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— 包括国际检索报告。

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(57) 摘要: 本发明公开了一种路由切换方法和网络节点设备。该方法为: 设置每一个目的端口号与发送端口号的对应关系, 其中每一个发送端口号的数值为对应的目的端口号本身; 当任意一个目的端口出现业务异常时, 网络节点设备在所设置的对应关系中, 将发生业务异常目的端口号所对应的发送端口号的数值修改为该业务异常目的端口对应的备份端口的端口号, 并保存; 网络节点设备接收到数据包后, 根据当前保存的对应关系发送数据包。所述的网络节点设备包括: 中央处理单元、一次路由单元和二次路由单元。本发明减少了修改路由数据所需要的时间, 使得网络节点设备能够快速进行路由切换, 并使得用户业务得到快速恢复。